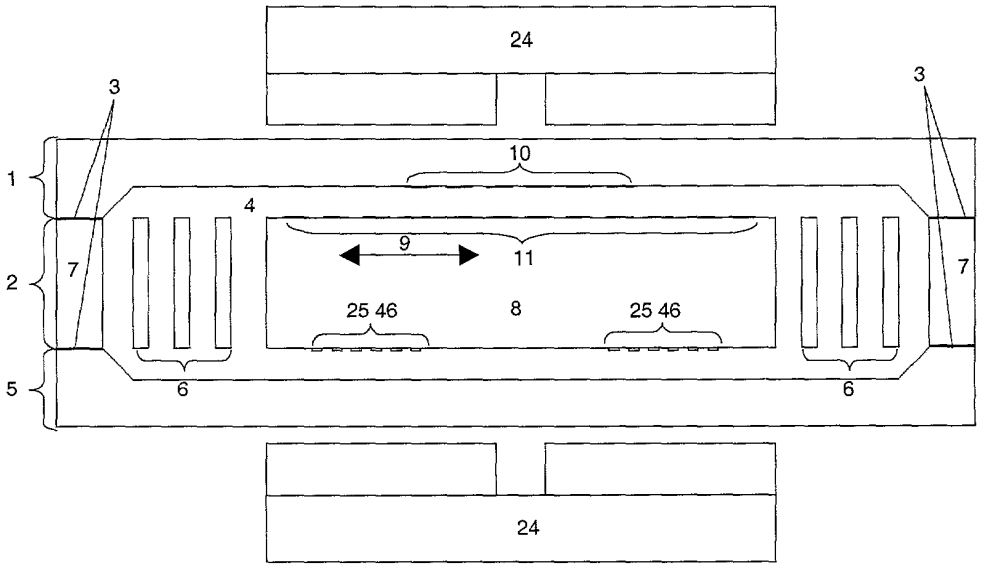


Fig. 1: Schematic cross-section of microseismometer

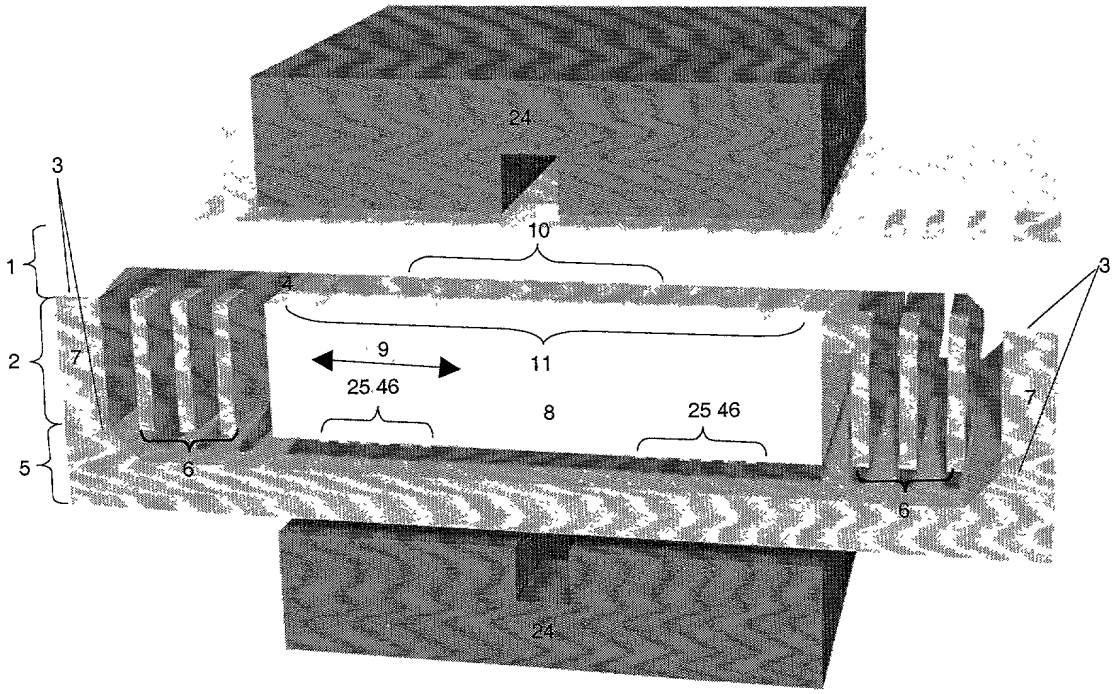


Fig. 2: 3-D View of microseismometer

FIG. 3a

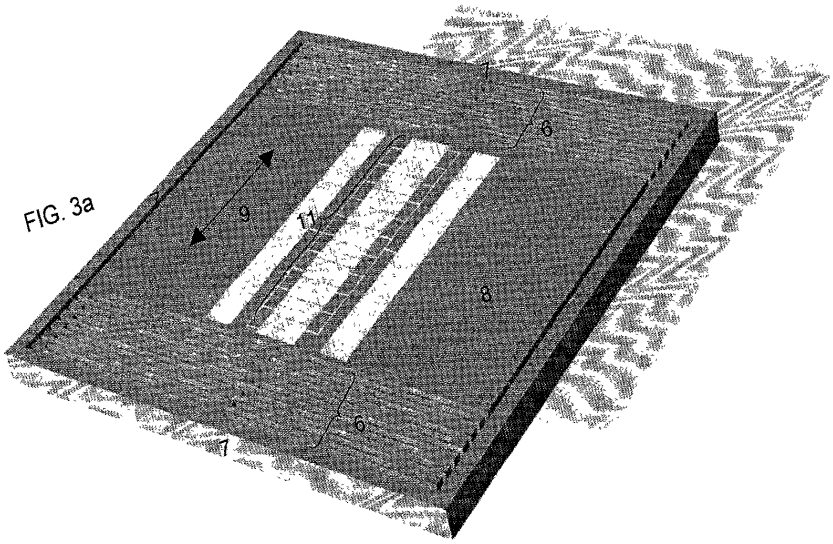
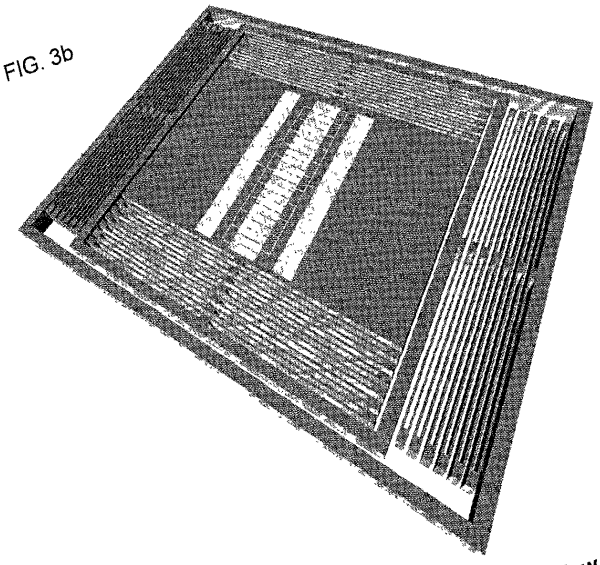


FIG. 3b



Figures 3a and 3b: 3-D view of suspension plate for (FIG. 3a) single-axis transducers and (FIG. 3b) dual-axis transducers

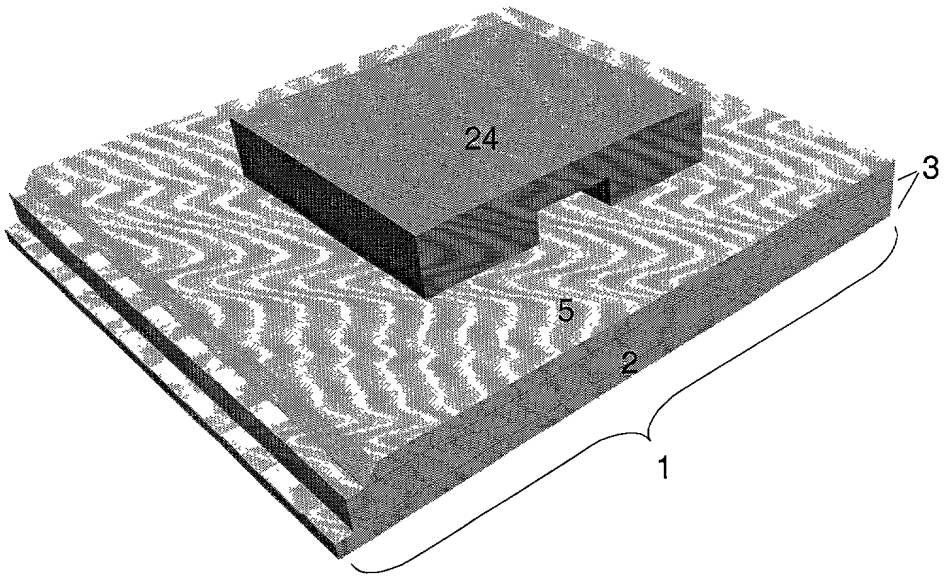


FIG. 4: Wafer stack with magnet, shown inverted compared to other figures.

FIG. 5a

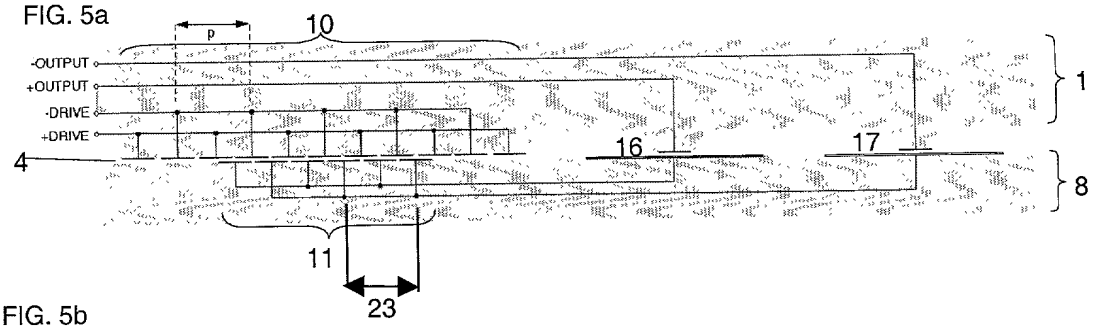


FIG. 5b

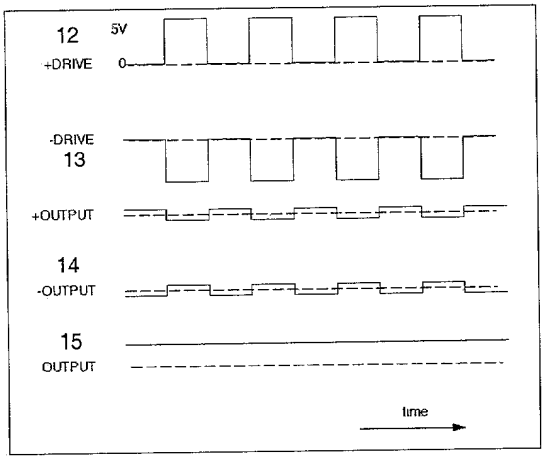


FIG. 5c

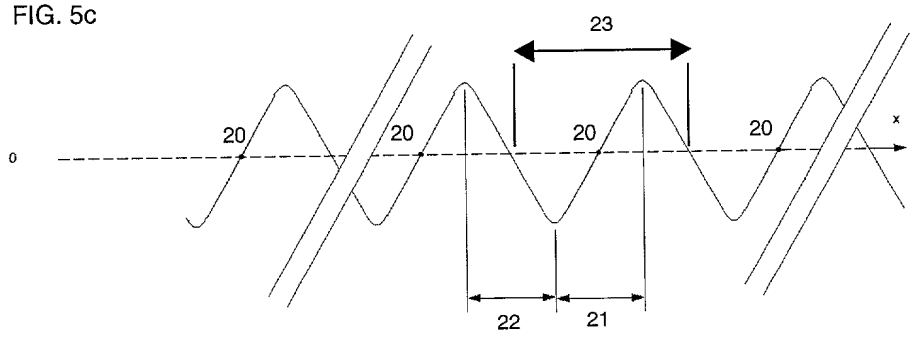
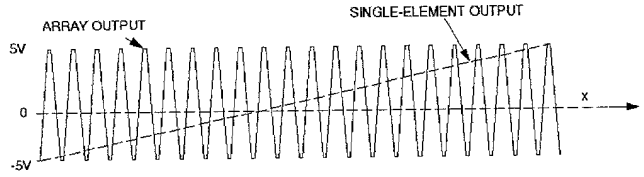


FIG. 5d



Figures 5a, 5b, 5c and 5d: Electronics schematic

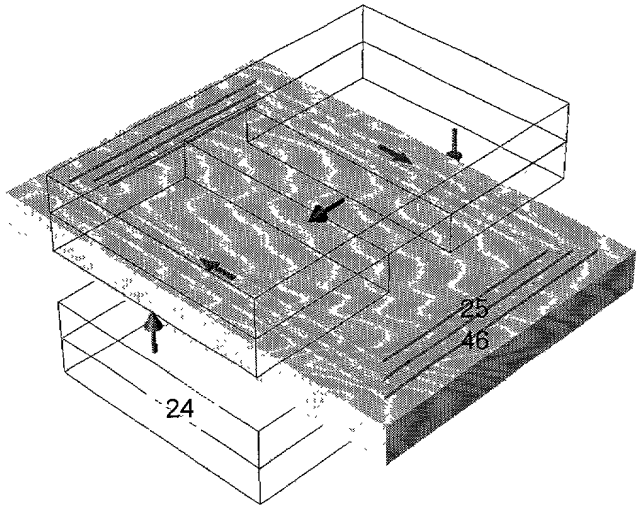


FIG. 6: Magnetic circuit

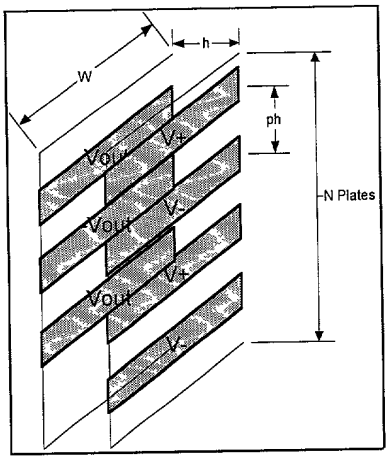


FIG. 10

FIG. 7a

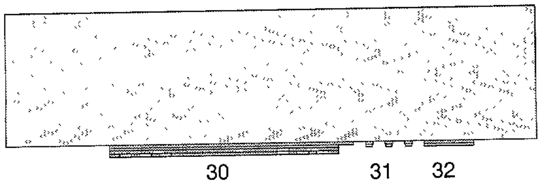


FIG. 7b

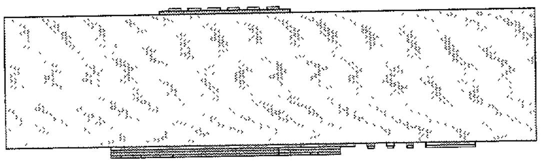


FIG. 7c

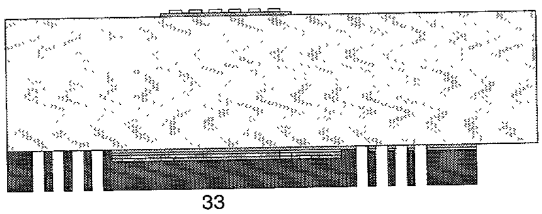


FIG. 7d

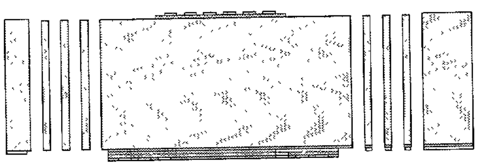


FIG. 7e

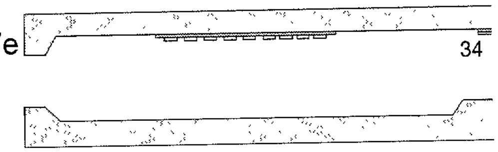


FIG. 7f

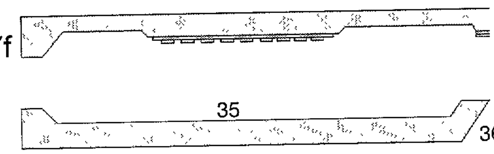
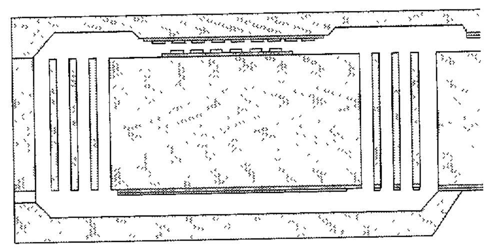


FIG. 7g



Figures 7a, 7b, 7c, 7d, 7e, 7f and 7g: Fabrication

FIG. 8a **ACCELEROMETER FEEDBACK ELECTRONICS FOR ELECTROSTATIC ACTUATOR**

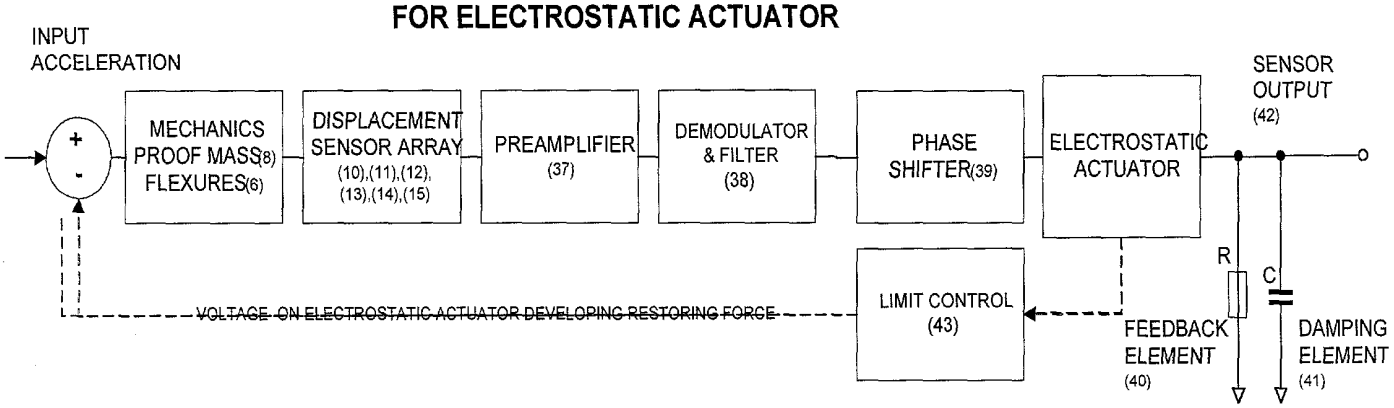
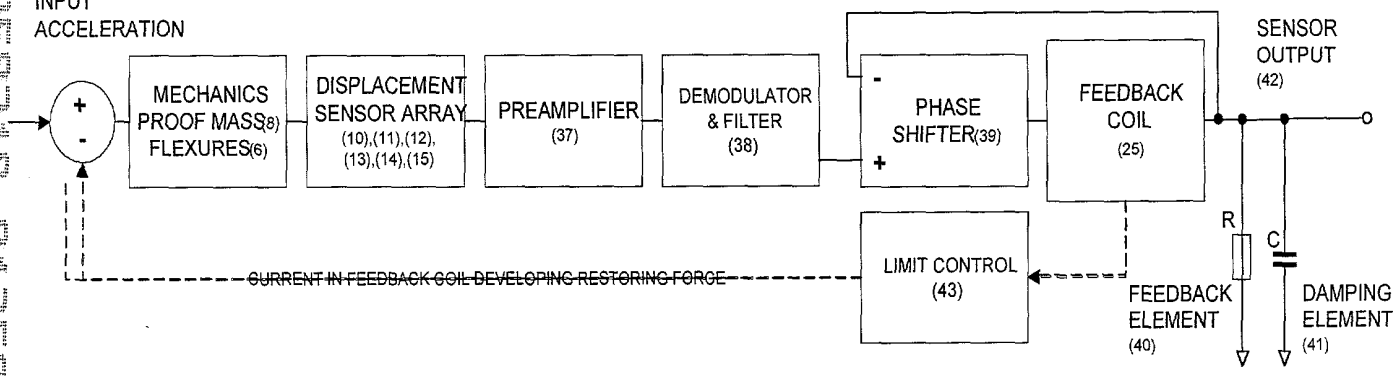


FIG. 8b **ACCELEROMETER FEEDBACK ELECTRONICS FOR MAGNETIC ACTUATOR**



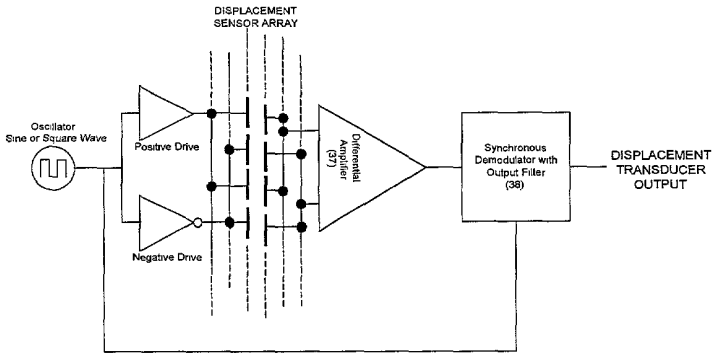


FIG. 8c **DISPLACEMENT TRANSDUCER**

Figures 8a, 8b and 8c: Accelerometer Feedback Circuits

FIG. 9: Seismometer Feedback Electronics